

Fei Zhao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

4,980
citations

27
h-index

34
g-index

34
ext. papers

7,027
ext. citations

24.6
avg, IF

6.56
L-index

#	Paper	IF	Citations
33	Super Water-Extracting Gels for Solar-Powered Volatile Organic Compounds Management in Hydrological Cycle.. <i>Advanced Materials</i> , 2022 , e2110548	24	5
32	A Nanostructured Moisture Absorbing Gel for Fast and Large-Scale Passive Dehumidification.. <i>Advanced Materials</i> , 2022 , e2200865	24	7
31	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification (Adv. Mater. 17/2022). <i>Advanced Materials</i> , 2022 , 34, 2270126	24	
30	High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation. <i>Advanced Functional Materials</i> , 2021 , 31, 2101036	15.6	30
29	Solar Water Purification: High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation (Adv. Funct. Mater. 19/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170135	15.6	3
28	Solar Water Evaporation Toward Water Purification and Beyond 2021 , 3, 1112-1129		29
27	Balancing the mechanical, electronic, and self-healing properties in conductive self-healing hydrogel for wearable sensor applications. <i>Materials Horizons</i> , 2021 , 8, 1795-1804	14.4	50
26	Atmospheric Water Harvesting: A Review of Material and Structural Designs 2020 , 2, 671-684		102
25	Tailoring surface wetting states for ultrafast solar-driven water evaporation. <i>Energy and Environmental Science</i> , 2020 , 13, 2087-2095	35.4	105
24	Materials for solar-powered water evaporation. <i>Nature Reviews Materials</i> , 2020 , 5, 388-401	73.3	318
23	Hydrogels and Hydrogel-Derived Materials for Energy and Water Sustainability. <i>Chemical Reviews</i> , 2020 , 120, 7642-7707	68.1	266
22	Super Moisture Absorbent Gels for Sustainable Agriculture via Atmospheric Water Irrigation 2020 , 2, 1419-1422		36
21	Topology-Controlled Hydration of Polymer Network in Hydrogels for Solar-Driven Wastewater Treatment. <i>Advanced Materials</i> , 2020 , 32, e2007012	24	75
20	Biomass-Derived Hybrid Hydrogel Evaporators for Cost-Effective Solar Water Purification. <i>Advanced Materials</i> , 2020 , 32, e1907061	24	221
19	Tailoring Nanoscale Surface Topography of Hydrogel for Efficient Solar Vapor Generation. <i>Nano Letters</i> , 2019 , 19, 2530-2536	11.5	147
18	Functional Hydrogels for Next-Generation Batteries and Supercapacitors. <i>Trends in Chemistry</i> , 2019 , 1, 335-348	14.8	103
17	Architecting highly hydratable polymer networks to tune the water state for solar water purification. <i>Science Advances</i> , 2019 , 5, eaaw5484	14.3	303

16	Synergistic Energy Nanoconfinement and Water Activation in Hydrogels for Efficient Solar Water Desalination. <i>ACS Nano</i> , 2019 , 13, 7913-7919	16.7	187
15	Hydrogels as an Emerging Material Platform for Solar Water Purification. <i>Accounts of Chemical Research</i> , 2019 , 52, 3244-3253	24.3	193
14	Simultaneous energy harvesting and storage via solar-driven regenerative electrochemical cycles. <i>Energy and Environmental Science</i> , 2019 , 12, 3370-3379	35.4	31
13	Super Moisture-Absorbent Gels for All-Weather Atmospheric Water Harvesting. <i>Advanced Materials</i> , 2019 , 31, e1806446	24	144
12	Electric power generation via asymmetric moisturizing of graphene oxide for flexible, printable and portable electronics. <i>Energy and Environmental Science</i> , 2018 , 11, 1730-1735	35.4	115
11	Stretchable All-Gel-State Fiber-Shaped Supercapacitors Enabled by Macromolecularly Interconnected 3D Graphene/Nanostructured Conductive Polymer Hydrogels. <i>Advanced Materials</i> , 2018 , 30, e1800124	24	304
10	Titelbild: A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte (Angew. Chem. 8/2018). <i>Angewandte Chemie</i> , 2018 , 130, 2025-2025	3.6	1
9	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2096-2100	16.4	325
8	Cyanogel-Enabled Homogeneous Sb-Ni-C Ternary Framework Electrodes for Enhanced Sodium Storage. <i>ACS Nano</i> , 2018 , 12, 759-767	16.7	63
7	A 3D Nanostructured Hydrogel-Framework-Derived High-Performance Composite Polymer Lithium-Ion Electrolyte. <i>Angewandte Chemie</i> , 2018 , 130, 2118-2122	3.6	24
6	Highly efficient solar vapour generation via hierarchically nanostructured gels. <i>Nature Nanotechnology</i> , 2018 , 13, 489-495	28.7	825
5	Designing 3D nanostructured garnet frameworks for enhancing ionic conductivity and flexibility in composite polymer electrolytes for lithium batteries. <i>Energy Storage Materials</i> , 2018 , 15, 46-52	19.4	139
4	Spontaneous power source in ambient air of a well-directionally reduced graphene oxide bulk. <i>Energy and Environmental Science</i> , 2018 , 11, 2839-2845	35.4	58
3	Nanostructured Functional Hydrogels as an Emerging Platform for Advanced Energy Technologies. <i>Advanced Materials</i> , 2018 , 30, e1801796	24	121
2	A hydrogel-based antifouling solar evaporator for highly efficient water desalination. <i>Energy and Environmental Science</i> , 2018 , 11, 1985-1992	35.4	393
1	Multifunctional Nanostructured Conductive Polymer Gels: Synthesis, Properties, and Applications. <i>Accounts of Chemical Research</i> , 2017 , 50, 1734-1743	24.3	257